

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	Fil	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/853,033	05/11/2001		Pierre Chambon	065691-0222	5081
22428	7590	06/20/2006		EXAM	INER
FOLEY AND LARDNER LLP SUITE 500				QIAN, CI	ELINE X
3000 K STR	EET NW		ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20007				1636	

DATE MAILED: 06/20/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Supplemental						
Notice of Allowability						

Application No.	Applicant(s)
09/853,033	CHAMBON ET AL.
Examiner	Art Unit
Celine X. Qian Ph.D.	1636

The MAILING DATE of this communication appears on t							
All claims being allowable, PROSECUTION ON THE MERITS IS (OR REM herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. of the Office or upon petition by the applicant. See 37 CFR 1.313 and MP	appropriate communication will be mailed in due course. THIS This application is subject to withdrawal from issue at the initiative						
1. This communication is responsive to							
2. The allowed claim(s) is/are 69 and 74-86.							
 3. Acknowledgment is made of a claim for foreign priority under 35 U a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received. 	ceived.						
 Copies of the certified copies of the priority documents International Bureau (PCT Rule 17.2(a)). 	have been received in this national stage application from the						
* Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.							
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.							
 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date 							
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date							
Identifying indicia such as the application number (see 37 CFR 1.84(c)) she each sheet. Replacement sheet(s) should be labeled as such in the header	ould be written on the drawings in the front (not the back) of according to 37 CFR 1.121(d).						
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.							
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. Notice of Informal Patent Application (PTO-152)						
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary (PTO-413),						
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08),	Paper No./Mail Date 7. ⊠ Examiner's Amendment/Comment						
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. Examiner's Statement of Reasons for Allowance9. Other						

Application/Control Number: 09/853,033 Page 2

Art Unit: 1636

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Applicant's representative on 5/31/06.

Claim 69. A method for producing spatio-temporally-controlled site-specific somatic recombinations in a mouse, wherein one or more gene or intergenic DNA sequences of interest naturally belonging to the genome of said mouse have been recombined, comprising:

- a) obtaining a transgenic mouse, wherein said transgenic mouse comprises:
 - (i) a transgene encoding a Cre fusion protein comprising sequentially:
 - (1) a Cre recombinase protein;
 - a hinge region of at least 15 amino acids;
 - a polypeptide comprising the ligand binding domain of the human nuclear estrogen receptor, or of a vertebrate nuclear estrogen receptor, said polypeptide exhibiting at least one mutation relative to the wild-type form of said ligand binding domains; and
 - (2) <u>said Cre fusion protein</u> has a negligible, or even zero recombinase activity in the absence of a synthetic ligand endowed with antiestrogenic

Application/Control Number: 09/853,033 Page 3

Art Unit: 1636

activity, the recombinase activity being induced by low dose of the synthetic ligand;

- (ii) one or more gene or intergenic DNA sequences of interest, naturally belonging to the mouse genome, flanked by one or more recognition sites for a Cre recombinase protein,
- b) administering to said transgenic mouse a low dose of said synthetic ligand in order to induce Cre-mediated recombination; and
- c) said gene or intergenic DNA sequences of interest undergo a site specific somatic recombination, as a result of the induction by said synthetic ligand, in at least 90% of the targeted cells of said mouse, whereas said gene or intergenic sequences of interest underwent recombination in less than 5% of the targeted cells of said mouse before step b).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Celine X. Qian Ph.D. whose telephone number is 571-272-0777. The examiner can normally be reached on 9:30-6:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Remy Yucel Ph.D. can be reached on 571-272-0781. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 09/853,033 Page 4

Art Unit: 1636

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Celine X Qian Ph.D. Examiner Art Unit 1636

CELINE QIAN, PH.D. PRIMARY EXAMINER

Table 1. 1. About A